Identification of milestone papers through time-balanced network centrality – Supplementary Tables

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3. Lattice Vibrations in Silicon and Germanium (B. N. Brockhouse) [Phys. Rev. Lett. 2, 256 (1959)]
4. Calculation of Partition Functions (J. Hubbard) [Phys. Rev. Lett. 3, 77 (1959)]
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15. Observation of High-Energy Neutrino Reactions and the Existence of Two Kinds of Neutrinos (G. Danby et al.) [Phys. Rev. Lett. 9, 36 (1962)]
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23. Interaction of "Solitons" in a Collisionless Plasma and the Recurrence of Initial States (N. J. Zabusky, M. D. Kruskal) [Phys. Rev. Lett. 15, 240 (1965)]
24. Absence of Ferromagnetism or Antiferromagnetism in One- or Two-Dimensional Isotropic Heisenberg Models (N. D. Mermin, H. Wagner)[Phys. Rev. Lett. 17, 1133 (1966)]
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26. Search for Neutrinos from the Sun (R. Davis Jr., D. S. Harmer, K. C. Hoffman) [Phys. Rev. Lett. 20, 1205 (1968)]
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29. Observed Behavior of Highly Inelastic Electron-Proton Scattering (M. Breidenbach et al.) [Phys. Rev. Lett. 23, 935 (1969)]

30. Acceleration and Trapping of Particles by Radiation Pressure (A. Ashkin) [Phys. Rev. Lett. 24, 156 (1970)]

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32. Critical Exponents in 3.99 Dimensions (K. G. Wilson, M. E. Fisher) [Phys. Rev. Lett. 28, 240 (1972)]

33. Feynman-Graph Expansion for Critical Exponents (Kenneth G. Wilson) [Phys. Rev. Lett. 28, 548 (1972)]

34. Evidence for a New Phase of Solid He^3 (D. D. Osheroff, R. C. Richardson, D. M. Lee) [Phys. Rev. Lett. 28, 885 (1972)]

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41. Evidence for Anomalous Lepton Production in e^+e Annihilation (M. L. Perl et al.) [Phys. Rev. Lett. 35, 1489 (1975)]

42. Observation of Stimulated Emission of Radiation by Relativistic Electrons in a Spatially Periodic Transverse Magnetic Field (L. R. Elias et al.)[Phys. Rev. Lett. 36, 717 (1976)]

43. First Operation of a Free-Electron Laser (D. A. G. Deacon et al.) [Phys. Rev. Lett. 38, 892 (1977)]

44. Electrical Conductivity in Doped Polyacetylene (C. K. Chiang et al.) [Phys. Rev. Lett. 39, 1098 (1977)]

45. Detection of Anisotropy in the Cosmic Blackbody Radiation (G. F. Smoot, M. V. Gorenstein, R. A. Muller) [Phys. Rev. Lett. 39, 898 (1977)]

46. Theory of Two-Dimensional Melting (B. I. Halperin, D. R. Nelson) [Phys. Rev. Lett. 41, 121 (1978)]

47. Scaling Theory of Localization: Absence of Quantum Diffusion in Two Dimensions (E. Abrahams et al.)[Phys. Rev. Lett. 42, 673 (1979)]

48. New Method for High-Accuracy Determination of the Fine-Structure Constant Based on Quantized Hall Resistance (K. v. Klitzing, G. Dorda, M. Pepper)[Phys. Rev. Lett. 45, 494 (1980)]

49. Experimental Tests of Realistic Local Theories via Bell's Theorem (A. Aspect, P. Grangier, G. Roger)[Phys. Rev. Lett. 47, 460 (1981)]

50. Two-Dimensional Magnetotransport in the Extreme Quantum Limit (D. C. Tsui, H. L. Stormer, A. C. Gossard) [Phys. Rev. Lett. 48, 1559 (1982)]

51. Surface Studies by Scanning Tunneling Microscopy (G. Binnig et al.) [Phys. Rev. Lett. 49, 57 (1982)]

52. Experimental Realization of Einstein-Podolsky-Rosen-Bohm Gedankenexperiment: A New Violation of Bell's Inequalities (A. Aspect, P. Grangier, G. Roger)[Phys. Rev. Lett. 49, 91 (1982)]

53. Experimental Test of Bell's Inequalities Using Time-Varying Analyzers (A. Aspect, J. Dalibard, G. Roger)[Phys. Rev. Lett. 49, 1804 (1982)]

54. Anomalous Quantum Hall Effect: An Incompressible Quantum Fluid with Fractionally Charged Excitations (R. B. Laughlin) [Phys. Rev. Lett. 50, 1395 (1983)]

55. Metallic Phase with Long-Range Orientational Order and No Translational Symmetry (D. Shechtman et al.) [Phys. Rev. Lett. 53, 1951 (1984)]

56. Three-dimensional viscous confinement and cooling of atoms by resonance radiation pressure (S. Chu et al.)[Phys. Rev. Lett. 55, 48 (1985)]

57. Atomic Force Microscope (G. Binnig, C. F. Quate, Ch. Gerber) [Phys. Rev. Lett. 56, 930 (1986)]

58. Superconductivity at $93\,K$ in a new mixed-phase Y-Ba-Cu-O compound system at ambient pressure (M. K. Wu et al.)[Phys. Rev. Lett. 58, 908 (1987)]

59. Observation of a neutrino burst from the supernova SN1987A (K. Hirata et al.) [Phys. Rev. Lett. 58, 1490 (1987)]

60. Observation of a neutrino burst in coincidence with supernova 1987A in the Large Magellanic Cloud (R. M. Bionta et al.) [Phys. Rev. Lett. 58, 1494 (1987)]

61. Observation of Atoms Laser Cooled below the Doppler Limit (Paul D. Lett et al.) [Phys. Rev. Lett. 61, 169 (1988)]

62. Laser Cooling below the One-Photon Recoil Energy by Velocity-Selective Coherent Population Trapping (A. Aspect et al.)[Phys. Rev. Lett. 61, 826 (1988)]

63. Giant Magnetoresistance of (001)Fe/(001)Cr Magnetic Superlattices (M. N. Baibich et al.) [Phys. Rev. Lett. 61, 2472 (1988)]

64. Enhanced magnetoresistance in layered magnetic structures with antiferromagnetic interlayer exchange (G. Binasch et al.)[Phys. Rev. B 39, 4828 (1989)]

65. Photonic band structure: The face-centered-cubic case (E. Yablonovitch, T. J. Gmitter) [Phys. Rev. Lett. 63, 1950 (1989)]

66. Synchronization in chaotic systems (L. M. Pecora, T. L. Carroll) [Phys. Rev. Lett. 64, 821 (1990)]

67. Controlling chaos (E. Ott, C. Grebogi, J. A. Yorke) [Phys. Rev. Lett. 64, 1196 (1990)]

68. Photonic band structure: The face-centered-cubic case employing nonspherical atoms (E. Yablonovitch, T. J. Gmitter, K. M. Leung)[Phys. Rev. Lett. 67, 2295 (1991)]

69. Quantum cryptography based on Bells theorem (A. K. Ekert) [Phys. Rev. Lett. 67, 661 (1991)]

70. Quantum cryptography without Bells theorem (C. H. Bennett, G. Brassard, N. D. Mermin) [Phys. Rev. Lett. 68, 557 (1992)]

71. Density matrix formulation for quantum renormalization groups (S. R. White) [Phys. Rev. Lett. 69, 2863 (1992)]

72. Teleporting an unknown quantum state via dual classical and Einstein-Podolsky-Rosen channels (C. H. Bennett et al.)[Phys. Rev. Lett. 70, 1895 (1993)]

73. Evidence for top quark production in $p\,p$ collisions at $\sqrt{s} = 1.8\,TeV$ (F. Abe et al.)[Phys. Rev. Lett. 73, 225 (1994)]

74. Observation of Top Quark Production in $p\,p$ Collisions with the Collider Detector at Fermilab (F. Abe et al.)[Phys. Rev. Lett. 74, 2626 (1995)]

75. Observation of the Top Quark (S. Abachi et al.) [Phys. Rev. Lett. 74, 2632 (1995)]

76. Bose-Einstein Condensation in a Gas of Sodium Atoms (K. B. Davis et al.) [Phys. Rev. Lett. 75, 3969 (1995)]

77. Collective Excitations of a Bose-Einstein Condensate in a Dilute Gas (D. S. Jin et al.) [Phys. Rev. Lett. 77, 420 (1996)]

78. Nonequilibrium Equality for Free Energy Differences (C. Jarzynski) [Phys. Rev. Lett. 78, 2690 (1997)]

79. Evidence for Oscillation of Atmospheric Neutrinos (Y. Fukuda et al.) [Phys. Rev. Lett. 81, 1562 (1998)]

80. Large Mass Hierarchy from a Small Extra Dimension (Lisa Randall, R. Sundrum) [Phys. Rev. Lett. 83, 3370 (1999)]

81. An Alternative to Compactification (L. Randall, R. Sundrum) [Phys. Rev. Lett. 83, 4690 (1999)]

82. Phase Coherent Vacuum-Ultraviolet to Radio Frequency Comparison with a Mode-Locked Laser (J. Reichert et al.)[Phys. Rev. Lett. 84, 3232 (2000)]

83. Composite Medium with Simultaneously Negative Permeability and Permittivity (D. R. Smith et al.)[Phys. Rev. Lett. 84, 4184 (2000)]

84. Direct Link between Microwave and Optical Frequencies with a 300 THz Femtosecond Laser Comb (S. A. Diddams et al.)[Phys. Rev. Lett. 84, 5102 (2000)]

85. Negative Refraction Makes a Perfect Lens (J. B. Pendry) [Phys. Rev. Lett. 85, 3966 (2000)]

86. Measurement of the Rate of $_e + d \rightarrow p + p + e^-$ Interactions Produced by ^8B Solar Neutrinos at the Sudbury Neutrino Observatory (Q. R. Ahmad et al.)[Phys. Rev. Lett. 87, 071301 (2001)]

87. Direct Evidence for Neutrino Flavor Transformation from Neutral-Current Interactions in the Sudbury Neutrino Observatory (Q. R. Ahmad et al.)[Phys. Rev. Lett. 89, 011301 (2015)]

S2. AN ALTERNATIVE BENCHMARK: LIST OF PAPERS THAT LED TO NOBEL PRIZE

We present here the list of the 67 papers that led to Nobel Prize used as benchmark for Fig. 4 in the main text. A considerable fraction (67.1%) of the papers listed below is also present in the list of MLs. This large overlap is simply due to the fact that the MLs chosen by the PRL editors often led to Nobel Prize for some of the authors. The remaining 32.9% of papers (marked with an asterisk) was not included among the MLs. In future research, this list might be used together with the MLs' list as a benchmark for metrics of scientific significance.

1. *Nuclear Induction (F. Bloch) [Phys. Rev. 70, 460 (1946)]
2. *Resonance Absorption by Nuclear Magnetic Moments in a Solid (E. M. Purcell, H. C. Torrey, R. V. Pound) [Phys. Rev. 69, 37 (1946)]
3. *Fine Structure of the Hydrogen Atom by a Microwave Method (Willis E. Lamb, Jr., Robert C. Retherford) [Phys. Rev. 72, 241 (1947)]
4. *Relaxation Effects in Nuclear Magnetic Resonance Absorption (N. Bloembergen, E. M. Purcell, R. V. Pound) [Phys. Rev. 73, 679 (1948)]
5. *Neutron Diffraction by Paramagnetic and Antiferromagnetic Substances (C. G. Shull, W. A. Strauser, E. O. Wollan) [Phys. Rev. 83, 333 (1951)]
6. *On Gauge Invariance and Vacuum Polarization (J. Schwinger) [Phys. Rev. 82, 664 (1951)]
7. *Some Effects of Ionizing Radiation on the Formation of Bubbles in Liquids (D. A. Glaser) [Phys. Rev. 87, 665 (1952)]
8. *Detection of the Free Neutrino (F. Reines, C. L. Cowan Jr.) [Phys. Rev. 92, 830 (1953)]
9. *Electron Coupled Interactions between Nuclear Spins in Molecules (Norman F. Ramsey) [Phys. Rev. 91, 303 (1953)]
10. *Observation of Antiprotons (O. Chamberlain et al.) [Phys. Rev. 100, 947 (1955)]
11. *Question of Parity Conservation in Weak Interactions (T. D. Lee, C. N. Yang) [Phys. Rev. 104, 254 (1956)]
12. *Absence of Diffusion in Certain Random Lattices (P. W. Anderson) [Phys. Rev. 109, 1492 (1958)]
13. *New Phenomenon in Narrow Germanium pn Junctions (L. Esaki) [Phys. Rev. 109, 603 (1958)]
14. *Infrared and Optical Masers (A. L. Schawlow, C. H. Townes) [Phys. Rev. 112, 1940 (1958)]
15. Lattice Vibrations in Silicon and Germanium (B. N. Brockhouse) [Phys. Rev. Lett. 2, 256 (1959)]
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21. *Localized Magnetic States in Metals (P. W. Anderson) [Phys. Rev. 124, 41 (1961)]
22. *Evidence for a T=0 Three-Pion Resonance (B. C. Magli et al.) [Phys. Rev. Lett. 7, 178 (1961)]
23. Observation of High-Energy Neutrino Reactions and the Existence of Two Kinds of Neutrinos (G. Danby et al.) [Phys. Rev. Lett. 9, 36 (1962)]
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26. *Coherent and Incoherent States of the Radiation Field (R. J. Glauber) [Phys. Rev. 131, 2766 (1963)]

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35. *Renormalization Group and Critical Phenomena. I. Renormalization Group and the Kadanoff Scaling Picture (K. G. Wilson) [Phys. Rev. B 4, 3174 (1971)]

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55. *Trapping of Neutral Sodium Atoms with Radiation Pressure (E. L. Raab et al.) [Phys. Rev. Lett. 59, 2631 (1987)]

56. *New high-precision comparison of electron and positron g factors (Robert S. Van Dyck, Jr., Paul B. Schwinberg, Hans G. Dehmelt) [Phys. Rev. Lett. 59, 26 (1987)]

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